

Title (en)
MACHINE TOOL WITH AN IMPROVED SYSTEM FOR STOPPING WORKPIECES TO BE MACHINED

Title (de)
WERKZEUGMASCHINE MIT EINEM VERBESSERTEN SYSTEM ZUM HALTEN VON ZU BEARBEITENDEN WERKSTÜCKEN

Title (fr)
MACHINE-OUTIL AVEC SYSTEME AMELIORE POUR ARRETER LES PIECES A USINER

Publication
EP 3476531 A1 20190501 (EN)

Application
EP 18196809 A 20180926

Priority
IT 201700123747 A 20171031

Abstract (en)
Described is a machine tool (1) comprising a system for stopping workpieces to be machined, said system comprising: a support (6) which is substantially flat for supporting at least one workpiece to be machined, in said support (6) there being formed at least one opening (9), beneath which there is at least one chamber (10); a system for generating a negative pressure connected to said at least one chamber (10) for generating a negative pressure in said at least one chamber (10); at least one shutter (11, 17) positioned beneath said at least one opening (9), said at least one shutter (11, 17) being movable between a raised position, in which said at least one shutter (11, 17) closes said at least one opening (9) and prevents, in use, said negative pressure in said at least one chamber (10) from passing through said at least one opening (9), and a lowered position, in which said at least one opening (9) is left at least partially open by said at least one shutter (11, 17) and said negative pressure propagates, in use, from said at least one chamber (10) to said at least one opening (9); and a control system connected to said at least one shutter (11, 17), for controlling the movement of said at least one shutter (11, 17) between said raised position and said lowered position, in such a way that when said at least one workpiece to be machined is positioned, in use, above said support (6) and said control system commands said at least one shutter (11, 17) to position itself in said lowered position, said at least one workpiece to be machined stops due to the effect of the attraction exerted by said negative pressure on said at least one workpiece to be machined towards said support (6).

IPC 8 full level
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CPC (source: EP)
B23Q 3/088 (2013.01); **B25B 11/005** (2013.01)

Citation (search report)
• [XYI] US 5048804 A 19910917 - ITO HIROTSUGU [JP]
• [Y] DE 102013113112 A1 20150611 - REIMANN MANFRED [DE]

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CN115179211A; CN116175244A; CN114473590A; EP3795292A1; CN112536740A; IT201900016838A1

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